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### Abstract of the Disclosure

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4 An off-gimbal pointing system is improved using filtering  
5 of resolver and gyro responses respectively applied at the  
6 output of the resolvers and gyros for attenuating high  
7 frequencies resolver responses and gyro responses that  
8 effectively degrades the high frequency responses that are  
9 matched and above the control system bandwidth for improving  
10 the overall dynamic control of the off-gimbal pointing system  
11 for rejecting the affects of base motion disturbances and  
12 vibrations.

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